## 7.0 SEQUENCE LISTING

### (1) GENERAL INFORMATION:

- (i) APPLICANT: Ralph, David An, Gang O'Hara, Mark S. Veltri, Robert
- (ii) TITLE OF INVENTION: DIAGNOSIS OF DISEASE STATE USING mRNA PROFILES IN PERIPHERAL LEUKOCYTES
- (iii) NUMBER OF SEQUENCES: 55
- (iv) CORRESPONDENCE ADDRESS:
  - (A) ADDRESSEE: Arnold, White & Durkee
  - (B) STREET: P.O. Box 4433
  - (C) CITY: Houston
  - (D) STATE: Texas
  - (E) COUNTRY: USA
  - (F) ZIP: 77210
- (v) COMPUTER READABLE FORM:
  - (A) MEDIUM TYPE: Floppy disk
  - (B) COMPUTER: IBM PC compatible
  - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
  - (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
- (vi) CURRENT APPLICATION DATA:
  - (A) APPLICATION NUMBER: US Unknown
  - (B) FILING DATE: Concurrently Herewith
  - (C) CLASSIFICATION: Unknown
- (vii) PRIOR APPLICATION DATA:
  - (A) APPLICATION NUMBER: US 60/041,576
  - (B) FILING DATÉ: 24-MAR-1997
- (viii) ATTORNEY/AGENT INFORMATION:
  - (A) NAME: Nakashima, Richard A.
  - (B) REGISTRATION NUMBER: P-42,023
  - (C) REFERENCE/DOCKET NUMBER: UROC:014
  - (ix) TELECOMMUNICATION INFORMATION:
    - (A) TELEPHONE: (512) 418-3000
    - (B) TELEFAX: (512) 474-7577

#### (2) INFORMATION FOR SEQ ID NO:1:

#### (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 387 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

GGTGAGCCCC AGGAGACAGA AGAGATATGA GGAAATTGTT AAGGAAGTCA GCACTTACAT 60

TAAGAAAATT GGCTACAACC CCGACACAGT AGCATTTGTG CCAATTTCTG GTTGGAATGG 120

TGACAACATG CTGGAGCCAA GTGCTAACAT GCCTTGGTTC AAGGGATGGA AAGTCACCCG 180

TAAGGATGGC AATGCCAGTG GAACCACGCT GCTTGAGGCT CTGGACTGCA TCCTACCACC 240

AACTCGTCCA ACTGACAAGC CCTTGCGCCT GCCTCCCAA GGATGTTCTT ACAAAATTGG 300

TGGTATTGGT ACTGTTCCCT GTTTGGCCGA ATTGGAAAAC TGGTGTTCCT CCAAACCCCG 360

GTTATGGTGG GTTTCCTCCT CCTTGGA

#### (2) INFORMATION FOR SEQ ID NO:2:

#### (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 365 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

GGGCGGAACA AGGGAGCGCT AAAAGGAAAT TAGGATGTCA GGTGCATAAA GGACATAATT 60

CCAAAACCTT TCCAAACCCC AAATTTATTC AAAGGAACTG AGGAGTGGAT TGAGGAGTGG 120

ACCAACACTG GCGCCAAACA CAGAAATTAT TGTAAAGCTT TCTGATGGAA GAGAGCTCTG 180

TCTGGGCCCC AAGGAAAACT GGGTGCAGAG GGTTGTGGAG AAGTTTTTGA AGAGGGCTGA 240

GAATTCATAA AAAAATTCAT TCTCTGTGGT ATCCAAGAAT CAGTGAAGAT GCCAGTGAAA 300

CTTCAAGCAA ATCTACTTCA ACACTTCATG TATTGTGTGG GTCTGTTGTA GGGTTGCCAG 360

TTGTT

### (2) INFORMATION FOR SEQ ID NO:3:

(	i'	SEQUENCE	CHARACTERISTICS:
•	-		CIMMCIERISTICS:

- (A) LENGTH: 598 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

GCTTGGGCCC	CAAGGAAAAC	TGGGTGCAGA	GGGTTGTGGA	GAAGTTTTTG	AAGAGGTAAG	60
TTATATATTT	TTGAATTTAA	AATTTGTCAT	TTATCCGTGA	GACATATAAT	CCAAAGTCAG	120
CCTATAAATT	TCTTTCTGTT	GCTAAAAATC	GTCATTAGGT	ATCTGCCTTT	TTGGTTAAAA	180
AAAAAAGGAA	TAGCATCAAT	AGTGAGTGTG	TTGTACTCAT	GACCAGAAAG	ACCATACATA	240
GTTTGCCCAG	GAAATTCTGG	GTTTAAGCTT	GTGTCCTATA	CTCTTAGTAA	AGTTCTTTGT	300
CACTCCCAGT	AGTGTCCTAT	GTTAGATGAT	AATGTCTTTG	ATCTCCCTAT	TTATAGTTGA	360
GAATATAGAG	CATGTCTAAC	ACATGAATGT	CAAAGACTAT	ATTGACTTTT	CAAGAACCCT	420
ACTTTCCTTC	TTATTAAACA	TAGCTCATCT	TTATATTGTG	AATTTTATTT	TAGGGCTGAG	480
AATTCATAAA	AAAATTCATT	CTCTGTGGTA	TCCAAGAATC	AGTGAAGATG	CCAGTGAAAC	540
TTCAAGCAAA	TCTACTTCAA	CACTTCATGT	ATTGTGTGGG	TCTGTTGTAG	GGTTGCCA	598

### (2) INFORMATION FOR SEQ ID NO:4:

### (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 22 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

### CGCCTCAGGC TGGGGCAGCA TT

22

(2) INFORMATION FOR SEQ ID NO:5:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 25 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:	
ACAGTGGAAG AGTCTCATTC GAGAT	25
(2) INFORMATION FOR SEQ ID NO:6:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 25 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:	
CGAGCTGCCT GACGGCCAGG TCATC	25
(2) INFORMATION FOR SEQ ID NO:7:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 25 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:	
GAAGCATTTG CGGTGGACGA TGGAG	25
(2) INFORMATION FOR SEQ ID NO:8:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 23 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:	
GACAACATGC TGGAGCCAAG TGC	23

(2) INFORMATION FOR SEQ ID NO:9:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 25 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:	
ACCACCAATT TTGTAAGAAC ATCCT	25
(2) INFORMATION FOR SEQ ID NO:10:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 17 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:	
GGGCCCCAAG GAAAACT	17
(2) INFORMATION FOR SEQ ID NO:11:	
<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 20 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:	
TGGCAACCCT ACAACAGACC	20
(2) INFORMATION FOR SEQ ID NO:12:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 17 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:	
GGGCCCCAAG GAAAACT	17

(2) INFO	RMATION FOR SEQ ID NO:13:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 20 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:13:	
ACGACTCA	CT ATAAGCAGGA	20
(2) INFO	RMATION FOR SEQ ID NO:14:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 23 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:14:	
TGACCCAG	CC CCTTGAGAAA CCT	23
(2) INFO	RMATION FOR SEQ ID NO:15:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 21 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:15:	
GCCTCAGG	CT GGGGCAGCAT T	21
(2) INFO	RMATION FOR SEQ ID NO:16:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 25 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:16:	
GGTCACCT	TC TGAGGGTGAA CTTGC	25

(2) INFORMATION FOR SEQ ID NO:17:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 12 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:	
AACAACTGGC AA	12
(2) INFORMATION FOR SEQ ID NO:18:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 12 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:	
GGCGACAAGG AG	12
(2) INFORMATION FOR SEQ ID NO:19:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 25 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:	
GGAGCTGCCT GACGGCCAGG TCATC	25
(2) INFORMATION FOR SEQ ID NO:20:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 22 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:20:	
TTGCCAAGGA GTGCTAAAGA AC	22

(2) INFOR	MATION FOR SEQ ID NO:21:		
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 18 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear		
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:21:		
TGGACCCCA	A GGAAAACT		18
(2) INFOR	MATION FOR SEQ ID NO:22:		
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 16 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear		
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:22:		
GGGCCCAAG	G AAAACT		16
(2) INFOR	MATION FOR SEQ ID NO:23:		
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 20 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear		
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:23:		
AACAGCTAT	G ACCATCGTGG		20
(2) INFOR	MATION FOR SEQ ID NO:24:		
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 20 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear		
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:24:		
ACGACTCAC	T ATGTGGAGAA	•	20

(2) INFORMATION FOR SEQ ID NO:25:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 23 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:25:	
CTGGCCTACG GAAGATACGA CAC	23
(2) INFORMATION FOR SEQ ID NO:26:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 23 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:26:	
ACAATCCGGA GGCATCAGAA ACT	23
(2) INFORMATION FOR SEQ ID NO:27:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 21 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:27:	
AGCCCCGGCC TCCTCGTCCT C	21
(2) INFORMATION FOR SEQ ID NO:28:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 19 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:28:	
GGCGGCGGCA GCGGTTCTC	19

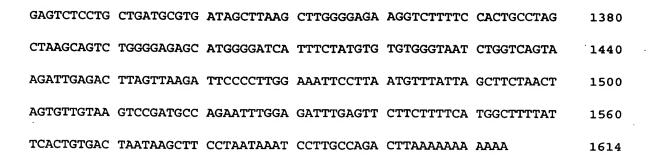
## (2) INFORMATION FOR SEQ ID NO:29:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1614 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:29:

GCGGCAGGCG	CGGCAAATTA	CGTTGCCGGA	GCTGAACGGC	GCGGCTGGTC	TGAAGGCAAA	60
CAAGCGAGCG	AGCGCGCGAT	AGGGCCGAG	AGGACGCGCA	GGTGGCGGCG	TTGCCATGTC	120
GCACGGTCAC	AGCCACGGCG	GGGGTGGCTG	CCGCTGCGCC	GCCGAACGGG	AGGAGCCGCC	180
CGAGCAGCGC	GGCCTGGCCT	ACGGCCTGTA	CCTGCGCATC	GACCTGGAGC	GGCTGCAATG	240
CCTTAACGAG	AGCCGCGAGG	GCAGCGGCCG	CGGCGTCTTC	AAGCCATGGG	AGGAGCGGAC	300
CGACCGCTCC	AAGTTTATTG	AAAGTGATGC	AGATGAAGAG	CTTCTGTTTA	ATATTCCATT	360
TACGGGCAAT	GTCAAGCTCA	AAGGCATCAT	TATAATGGGA	GAGGATGATG	ACTCACACCC	420
CTCTGAGATG	AGACTGTACA	AGAATATTCC	ACAGATGTCC	TTTGATGATA	CAGAAAGGGA	480
GCCAGATCAG	ACCTTTAGTC	TGAACCGGGA	TCTTACAGGA	GAATTAGAGT	ATGCTACAAA	540
AATTTCTCGT	TTTTCAAATG	TCTATCATCT	CTCAATTCAT	ATTTCAAAAA	ACTTCGGAGC	600
AGATACGACA	AAGGTCTTTT	ATATTGGCCT	GAGAGGAGAG	TGGACTGAGC	TTCGCCGACA	660
CGAGGTGACC	ATCTGCAATT	ACGAAGCATC	TGCCAACCCA	GCAGACCATA	GGGTCCATCA	720
GGTTACCCCA	CAGACACACT	TTATTTCCTA	AGGGCTGGCC	AAGGCTCCCA	TAGAGGCGCT	780
GTGTCAGTGA	AGATGTACGA	CTACCTGTTG	GGAAGGACAA	AGGGATGAGG	CTCCAGAGAG	840
AGTTGGCTGC	CACAGCTCTG	CCAAGCTTTG	TCTTTGGGGC	TTGCTGCAGA	AACCTGGCCT	900
ACGGAAGATA	CGACACCACT	GGGAGGGTTG	TGTAGGTGCC	AGGGGACCAT	CGTGGTTCTC	960
TAGGGCGCTG	TGGAAATTGG	GTCTTGGGCT	GGGTGGCATC	TGGCAGTCAT	GGGTAACACT	1020
TGCTTTTCCA	GTTAATGTGG	CCATGTGATT	CCAAGTGTCA	TGTTGCTTTG	TGGAAGATTG	1080
TTGTGTGACT	TGTTTTTTG	ATTTTGTATT	TGTTTTTTA	AAGGAAACTA	TTTGTGGGCT	1140
ATAGGAAACT	TTCTGATGCC	TCCGGATTGT	GTTAGTAGTA	GCCATCAGGA	GGGTCTCCAA	1200
CTAAAACACT	TGTTCCTGCT	TGCTCCTTTC	CCCTCTCATT	GTTCAGCATT	CTTGTCAAGT	1260
TGCCCAGCTT	GGAGTTGTCT	GTCACGCACA	TGTGTCCTGT	GGTTATAGCT	AGAAGGACAG	1320



# (2) INFORMATION FOR SEQ ID NO:30:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 1268 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:30:

60	TGCGGACGAA	CTGAAAGTGA	TCCAAGTTCG	GACCGACCGC	TGGGAGGACG	TTTCAAGCCG
120	CATCATAATG	TGAAAGGCGT	AATGTCAAGC	GTTTACGTGC	TTAATATTCC	GAGCTCCTGT
180	TCCACAGATG	ACAAGAACAT	ATGAGACTGT	CCCCTCGGAG	ATGACTCGCA	GGCGAGGATG
240	AGACATTACA	GTCTGAACCG	CAGACCTTCA	GGAGCCAGAG	ACACAGAAAG	TCATTTGATG
300	TCTTTCCATT	ATGTCTATCA	AGGTTTTCAA	GAAAATCTCC	AATATGCTAC	GGAGAATTAG
360	CCTGCGGGGA	TTTATATTGG	ACGAAGATCT	AGCAGATACG	AAAACTTTGG	CATATTTCAA
420	GTCAGCCAAC	ACTATGAAGC	ACCATCTGCA	GCATGAGGTG	AGCTTCGCCG	GAGTGGACTG
480	TTAAGGGCCA	ACTTCATTTC	CCGCAGACAC	TCAGGTCACC	ACCGGGTGCA	CCAGCAGACC
540	GGGAAGGACA	ACCACCTGCT	AAGATGTGCG	GCTGTTAGTG	CCTCAGATGC	GCCGGGGCTC
600	TCGGGGTTGC	AGGCTTTGTC	AGCTTTGGCC	TGCCTGCCAG	CAGCAATAGT	GAGGATGCTC
660	TGCCAAGGGA	GCGGTATGGG	ACCACCAGGA	AAACCGCCTC	TGGCCTGTGG	TGCAGGAACC
720	CTGTCAGTCA	TGGGTGGCAT	GGTCTTAGGC	GCAGAAACTG	CTAAGGCACT	TAGTCTCTCT
780	TTGCTTGATT	ATGTGTCTTT	ACGGGATCCC	GTCTGTGGCC	TCACTTCCCA	TGAATAATGC
840	GTAGAATCCT	TTCCTTGACC	AAAAGGATGC	TGTGGCATCA	TTTGTCCTTT	TCTTGTGTGG
900	TAGAAACACT	GGTCTCCAGC	CCATCAGGAG	TTTGAATTAG	GAGTTTCGTG	TCTGAAACCC
960	TGCCTAGCTG	CGTGTCAGGG	GCTCAGCATT	TCCTGTCATT	TTGCTCCTCC	TCGTCCCTGC
1020	AGTCTCCTGA	GAAAGGAAGG	ATGGTGGTTG	GTGTCCCACA	TCAGACACAA	GTGTCACATA

TACATGACTG	CTTGGGGAAG	GCTTACACAG	TCTAGCCAAA	TTAGTTGCGA	GTCCTTTCCC	1080
TGTGTGGGTG	ACCTGGTTGG	GGTAAAACTG	AGACAGTAAA	GATTCCTCTT	GGGACCTCCT	1140
TGGTGTTTCC	CTGCTTCTAA	CTCATGTTAT	AAACCCAGGG	CTGGAGTCTG	GAGACCCTGC	1200
TCCTTCTGTT	CATGGCTTTC	ATTCATGGTG	ACTAATGAGC	TTCCTAATAA	ATCCTTAGAG	1260
ACTTAAAA						1268

## (2) INFORMATION FOR SEQ ID NO:31:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 211 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS:
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:31:
- Met Ser His Gly His Ser His Gly Gly Gly Cys Arg Cys Ala Ala 1 5 10 15
- Glu Arg Glu Glu Pro Pro Glu Gln Arg Gly Leu Ala Tyr Gly Leu Tyr
  20 25 30
- Leu Arg Ile Asp Leu Glu Arg Leu Gln Cys Leu Asn Glu Ser Arg Glu 35 40 45
- Gly Ser Gly Arg Gly Val Phe Lys Pro Trp Glu Glu Arg Thr Asp Arg 50 55 60
- Ser Lys Phe Ile Glu Ser Asp Ala Asp Glu Glu Leu Leu Phe Asn Ile 65 70 75 80
- Pro Phe Thr Gly Asn Val Lys Leu Lys Gly Ile Ile Ile Met Gly Glu 85 90 95
- Asp Asp Ser His Pro Ser Glu Met Arg Leu Tyr Lys Asn Ile Pro 100 105 110
- Gln Met Ser Phe Asp Asp Thr Glu Arg Glu Pro Asp Gln Thr Phe Ser 115 120 125
- Leu Asn Arg Asp Leu Thr Gly Glu Leu Glu Tyr Ala Thr Lys Ile Ser 130 135 140
- Arg Phe Ser Asn Val Tyr His Leu Ser Ile His Ile Ser Lys Asn Phe 145 150 155 160
- Gly Ala Asp Thr Thr Lys Val Phe Tyr Ile Gly Leu Arg Gly Glu Trp 165 170 175

Thr Glu Leu Arg Arg His Glu Val Thr Ile Cys Asn Tyr Glu Ala Ser 180 185 190

Ala Asn Pro Ala Asp His Arg Val His Gln Val Thr Pro Gln Thr His
195 200 205

Phe Ile Ser 210

#### (2) INFORMATION FOR SEQ ID NO:32:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 157 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS:
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:32:

Phe Lys Pro Trp Glu Glu Arg Thr Asp Arg Ser Lys Phe Ala Glu Ser

1 10 15

Asp Ala Asp Glu Glu Leu Leu Phe Asn Ile Pro Phe Thr Cys Asn Val 20 25 30

Lys Leu Lys Gly Val Ile Ile Met Gly Glu Asp Asp Asp Ser His Pro 35 40 45

Ser Glu Met Arg Leu Tyr Lys Asn Ile Pro Gln Met Ser Phe Asp Asp 50 55 60

Thr Glu Arg Glu Pro Glu Gln Thr Phe Ser Leu Asn Arg Asp Ile Thr 65 70 75 80

Gly Glu Leu Glu Tyr Ala Thr Lys Ile Ser Arg Phe Ser Asn Val Tyr 85 90 95

His Leu Ser Ile His Ile Ser Lys Asn Phe Gly Ala Asp Thr Thr Lys
100 105 110

Ile Phe Tyr Ile Gly Leu Arg Gly Glu Trp Thr Glu Leu Arg Arg His
115 120 125

Glu Val Thr Ile Cys Asn Tyr Glu Ala Ser Ala Asn Pro Ala Asp His 130 135 140

Arg Val His Gln Val Thr Pro Gln Thr His Phe Ile Ser 145 150 155

### (2) INFORMATION FOR SEQ ID NO:33:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 207 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS:
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:33:

Cys Ser His Gly His Ser His Asn Cys Ala Ala Glu His Ile Pro Glu

1 10 15

Val Pro Gly Asp Asp Val Tyr Arg Tyr Asp Met Val Ser Tyr Ile Asp 20 25 30

Met Glu Lys Val Thr Thr Leu Asn Glu Ser Val Asp Gly Ala Gly Lys 35 40 45

Lys Val Phe Lys Val Met Glu Lys Arg Asp Asp Arg Leu Glu Tyr Val 50 55 60

Glu Ser Asp Cys Asp His Glu Leu Leu Phe Asn Ile Pro Phe Thr Gly
65 70 75 80

His Val Arg Leu Thr Gly Leu Ser Ile Ile Gly Asp Glu Asp Gly Ser 85 90 95

His Pro Ala Lys Ile Arg Leu Phe Lys Asp Arg Glu Ala Met Ser Phe 100 105 110

Asp Asp Cys Ser Ile Glu Ala Asp Gln Glu Ile Asp Leu Lys Gln Asp 115 120 125

Pro Gln Gly Leu Val Asp Tyr Pro Leu Lys Ala Ser Lys Phe Gly Asn 130 135 140

Ile His Asn Leu Ser Ile Leu Val Asp Ala Asn Phe Gly Glu Asp Glu 145 150 155 160

Thr Lys Ile Tyr Tyr Ile Gly Leu Arg Gly Glu Phe Gln His Glu Phe
165 170 175

Arg Gln Arg Ile Ala Ile Ala Thr Tyr Glu Ser Arg Ala Gln Leu Lys 180 185 190

Asp His Lys Asn Glu Île Pro Asp Ala Val Ala Lys Gly Leu Phe 195 200 205

## (2) INFORMATION FOR SEQ ID NO:34:

# (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 3205 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:34:

CGACTCGTCG	CCATTCCCGG	AGCAGGTCGG	CCTCGGCCCA	GGGGCGAGTA	TCCGTTGCTG	60
TGTCGGAGAC	ACTAGTCCCC	GACACCGAGA	CAGCCAGCCC	TCTCCCCTGC	CTCGCGGCGG	120
GAGAGCGTGT	CCGGCCGGCC	GGCCGGCGGG	GCTCGCGCAA	CCTCCCTCGC	CTCCCCTTCC	180
CCCGCAGCCT	CCGCCCCGCC	AGGCCCGGCC	CGGACTCCCG	AGCCCCGGCC	TCCTCGTCCT	240
CGGTCGCCGC	TGCCGCCGGG	CTTAACAGCC	CCGTCCGCCG	CTTCTCTTCC	TAGTTTGAGA	300
AGCCAAGGAA	GGAAACAGGG	AAAAATGTCG	CCATGAAGGC	CGAGAACCGC	TGCCGCCGCC	360
GACCCCCGCC	GGCCCTGAAC	GCCATGAGCC	TGGGTCCCCG	CCGCGCCCGC	TCCGCTCCGA	420
CTGCCGTCGC	CGCCGAGGCC	CCCGTTGATG	CCGCTGAGCT	CCCCCAACGC	CGCCGCCACC	480
GCCTCCGACA	TGGACAAGAA	CAGCGGCTCC	AACAGCTCCT	CCGCCTCTTC	GGGCAGCAGC	540
AAAGGGCAAC	AGCCGCCCG	CTCCGCCTCG	GCGGGGCCAG	CCGGCGAGTC	TAAACCCAAG	600
AGCGAATTAC	TAATTTCAGC	TGGATTCAAT	TTGTTGTCAG	TTGATTCTGT	AGTAAGGCCA	660
TATGTTGCCC	CTCTGGAGGT	GCTTGTCAAC	TACTCTGGAT	GATGGATGGA	AAGAACTCCA	720
GTGGATCCAA	GCGTTATAAT	CGCAAACGTG	AACTTTCCTA	CCCCAAAAAT	GAAAGTTTTA	780
ACAACCAGTC	CCGTCGCTCC	AGTTCACAGA	AAAGCAAGAC	TTTTAACAAG	ATGCCTCCTC	840
AAAGGGGCGG	CGGCAGCAGC	AAACTCTTTA	GCTCTTCTTT	TAATGGTGGA	AGACGAGATG	900
AGGTAGCAGA	GGCTCAACGG	GCAGAGTTTA	GCCCTGCCCA	GTTCTCTGGT	CCTAAGAAGA	960
TCAACCTGAA	CCACTTGTTG	AATTTCACTT	TTGAACCCCG	TGGCCAGACG	GGTCACTTTG	1020
AAGGCAGTGG	ACATGGTAGC	TGGGGAAAGA	GGAACAAGTG	GGGACATAAG	CCTTTTAACA	1080
AGGAACTCTT	TTTACAGGCC	AACTGCCAAT	TTGTGGTGTC	TGAAGACCAA	GACTACACAG	1140
CTCATTTTGC	TGATCCTGAT	ACATTAGTTA	ACTGGGACTT	TGTGGAACAA	GTGCGCATTT	1200
GTAGCCATGA	AGTGCCATCT	TGCCCAATAT	GCCTCTATCC	ACCTACTGCA	GCCAAGATAA	1260
CCCGTTGTGG	ACACATCTTC	TGCTGGGCAT	GCATCCTGCA	CTATCTTTCA	CTGAGTGAGA	1320



AACAGAAGCT	CCTGTTCAGC	ACCTCAGTCG	TCCACACCAA	GTGACACTAC	TGGCCCAGGC	3000
TACCTTCTCC	ATCTGGTTTT	TGTTTTTGTT	TTTTTTCCC	CCATGCTTTT	GTTTGGCTGC	3060
TGTAATTTTT	AAGTATTTGA	GTTTGAACAG	ATTAGCTCTG	GGGGGAGGGG	GTTTCCACAA	3120
TGTGAGGGGG	AACCAAGAAA	ATTTTAAATA	CAGTGTATTT	TCCAGCTTCC	TGTCTTTACA	3180
ССААААТААА	GTATTGACAC	AAGAG				3205

### (2) INFORMATION FOR SEQ ID NO:35:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 761 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS:
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:35:

Met Met Asp Gly Lys Asn Ser Ser Gly Ser Lys Arg Tyr Asn Arg Lys

1 10 15

Arg Glu Leu Ser Tyr Pro Lys Asn Glu Ser Phe Asn Asn Gln Ser Arg
20 25 30

Arg Ser Ser Ser Gln Lys Ser Lys Thr Phe Asn Lys Met Pro Pro Gln 35 40 45

Arg Gly Gly Ser Ser Lys Leu Phe Ser Ser Ser Phe Asn Gly Gly 50 55 60

Arg Arg Asp Glu Val Ala Glu Ala Gln Arg Ala Glu Phe Ser Pro Ala 65 70 75 80

Gln Phe Ser Gly Pro Lys Lys Ile Asn Leu Asn His Leu Leu Asn Phe 85 90 95

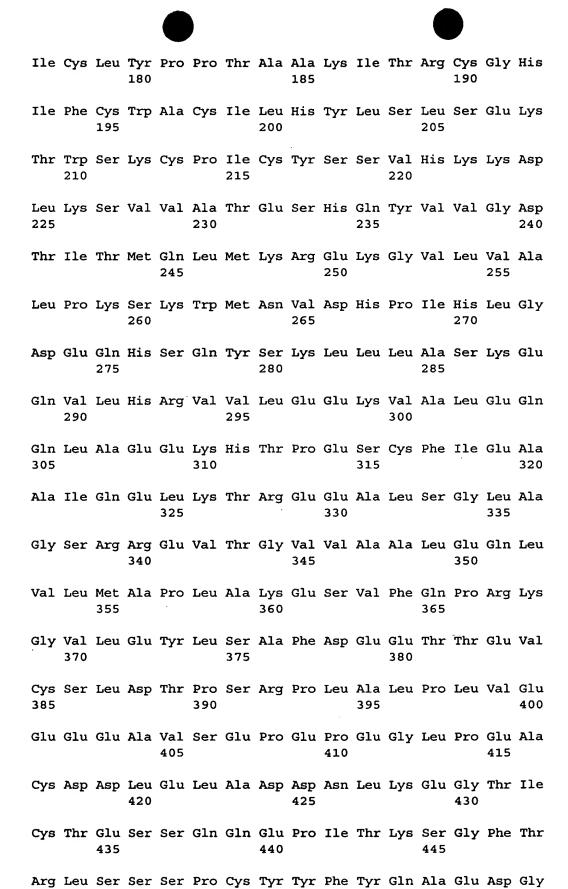
Thr Phe Glu Pro Arg Gly Gln Thr Gly His Phe Glu Gly Ser Gly His
100 105 110

Gly Ser Trp Gly Lys Arg Asn Lys Trp Gly His Lys Pro Phe Asn Lys 115 120 125

Glu Leu Phe Leu Gln Ala Asn Cys Gln Phe Val Val Ser Glu Asp Gln 130 135 140

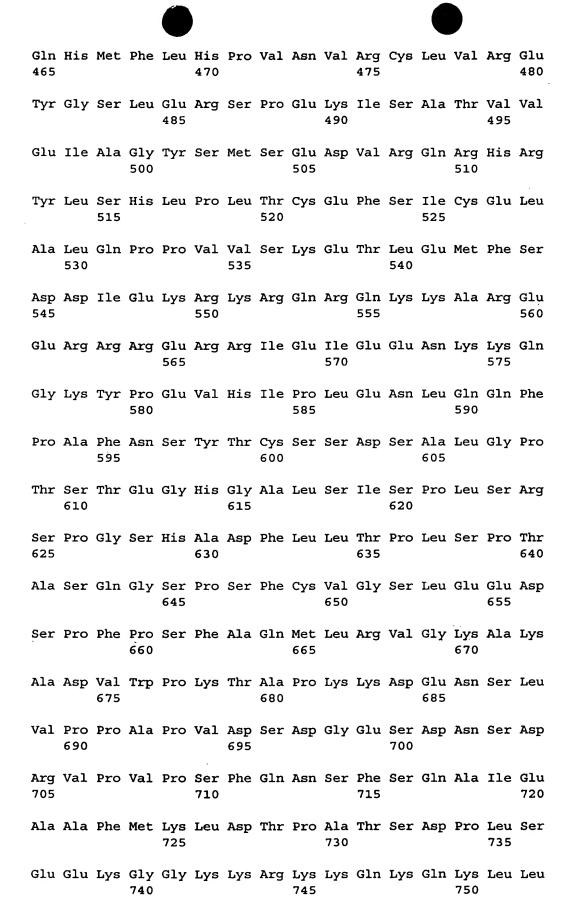
Asp Tyr Thr Ala His Phe Ala Asp Pro Asp Thr Leu Val Asn Trp Asp 145 150 155 160

Phe Val Glu Gln Val Arg Ile Cys Ser His Glu Val Pro Ser Cys Pro 165 170 175



455

450



### Phe Ser Thr Ser Val Val His Thr Lys 755 760

- (2) INFORMATION FOR SEQ ID NO:36:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 42 amino acids
    - (B) TYPE: amino acid
    - (C) STRANDEDNESS:
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:36:

Cys Pro Ile Cys Leu Tyr Pro Pro Thr Ala Ala Lys Ile Thr Arg Cys

1 10 15

Gly His Ile Phe Cys Trp Ala Cys Ile Leu His Tyr Leu Ser Leu Ser 20 25 30

Glu Lys Thr Trp Ser Lys Cys Pro Ile Cys
35 40

- (2) INFORMATION FOR SEQ ID NO:37:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 41 amino acids
    - (B) TYPE: amino acid
    - (C) STRANDEDNESS:
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:37:

Cys Pro Ile Cys Leu Glu Leu Ile Lys Glu Pro Val Ser Thr Lys Cys
1 10 15

Asp His Ile Phe Cys Lys Phe Cys Met Leu Lys Leu Leu Asn Gln Lys 20 25 30

Lys Gly Pro Ser Gln Cys Pro Leu Cys 35 40

### (2) INFORMATION FOR SEQ ID NO:38:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 44 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS:
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:38:

Cys Pro Ile Cys Leu Glu Leu Leu Lys Glu Pro Val Ser Ala Asp Cys
1 5 10 15

Asn His Ser Phe Cys Arg Ala Cys Ile Thr Leu Asn Tyr Glu Ser Asn 20 25 30

Arg Asn Thr Asp Gly Lys Gly Asn Cys Pro Val Cys
35 40

- (2) INFORMATION FOR SEQ ID NO:39:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 40 amino acids
    - (B) TYPE: amino acid
    - (C) STRANDEDNESS:
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:39:

Cys Ala Phe Cys His Ser Val Leu His Asn Pro His Gln Thr Gly Cys

1 10 15

Gly His Arg Phe Cys Gln Gln Cys Ile Arg Ser Leu Arg Glu Leu Asn 20 25 30

Ser Val Pro Ile Cys Pro Val Asp 35 40

- (2) INFORMATION FOR SEQ ID NO:40:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 45 amino acids
    - (B) TYPE: amino acid
    - (C) STRANDEDNESS:
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:40:

Cys Pro Ile Cys Met Glu Ser Phe Thr Glu Glu Gln Leu Arg Pro Lys

1 10 15

Leu Leu His Cys Gly His Thr Ile Cys Arg Gln Cys Leu Glu Lys Leu 20 25 30

Leu Ala Ser Ser Ile Asn Gly Val Arg Cys Pro Phe Cys 35 40 45

- (2) INFORMATION FOR SEQ ID NO:41:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 44 amino acids
    - (B) TYPE: amino acid
    - (C) STRANDEDNESS:
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:41:

Cys Pro Arg Cys Lys Thr Thr Lys Tyr Arg Asn Pro Ser Leu Lys Leu 1 5 10 15

Met Val Asn Val Cys Gly His Thr Leu Cys Glu Ser Cys Val Asp Leu 20 25 30

Leu Phe Val Arg Gly Ala Gly Asn Cys Pro Glu Cys
35 40

- (2) INFORMATION FOR SEQ ID NO:42:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 44 amino acids
    - (B) TYPE: amino acid
    - (C) STRANDEDNESS:
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:42:

Cys Pro Arg Cys Lys Thr Thr Lys Tyr Arg Asn Pro Ser Leu Lys Leu

1 5 10 15

Met Val Asn Val Cys Gly His Thr Leu Cys Glu Ser Cys Val Asp Leu 20 25 30

Leu Phe Val Arg Gly Ala Gly Asn Cys Pro Glu Cys 35 40

### (2) INFORMATION FOR SEQ ID NO:43:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 39 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS:
  - (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:43:

Cys Val Leu Cys Gly Gly Tyr Phe Ile Asp Ala Thr Thr Ile Ile Glu 1 5 10 15

Cys Leu His Phe Ser Cys Lys Thr Cys Ile Val Arg Tyr Leu Glu Thr
20 25 30

Ser Lys Tyr Cys Pro Ile Cys 35

- (2) INFORMATION FOR SEQ ID NO:44:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 40 amino acids
    - (B) TYPE: amino acid
    - (C) STRANDEDNESS:
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:44:

Cys Ala Ile Cys Leu Asp Glu Týr Glu Asp Gly Asp Lys Leu Arg Ile 1 5 10 15

Leu Pro Cys Ser His Ala Tyr His Cys Lys Cys Val Asp Pro Trp Leu 20 25 30

Thr Lys Lys Thr Cys Pro Val Cys
35 40

- (2) INFORMATION FOR SEQ ID NO:45:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 41 amino acids
    - (B) TYPE: amino acid
    - (C) STRANDEDNESS:
    - (D) TOPOLOGY: linear
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:45:

Cys Thr Ile Cys Tyr Glu Asn Pro Ile Asp Ser Val Leu Tyr Met Cys

1 10 15

20	25	30
Val Gly Gly Gln Cys Pro Leu 35 40	Суѕ	
(2) INFORMATION FOR SEQ ID NO:46:		
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 20 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>		
(xi) SEQUENCE DESCRIPTION: SEQ I	D NO:46:	
AACAGCTATG ACCCTGAGGA		20
(2) INFORMATION FOR SEQ ID NO:47:		
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 24 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>		
(xi) SEQUENCE DESCRIPTION: SEQ I	D NO:47:	·
AAGCCCCAAG CCCAGAGACA AGAT		24
(2) INFORMATION FOR SEQ ID NO:48:		
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 253 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>		••
(xi) SEQUENCE DESCRIPTION: SEQ I	NO:48:	
GGCAGGGGCT TGTGACTCTA AGATGGCTTC ATTO	CACATGC CTAGGGCCTC AG	STAGGATGA 60
CTGGCATGGC CCTGGAAAAC TGCGAAGTCT TCTC	CTCTGTG CAAACTTTCA CO	CTGGACTTT 120
TTATATGATT CTGGAAGTAT TCCAAGAAGG CAA	AAGTAAA AACTGCAAAG CO	STCTTAAAA 180
TAGAAGTTCA GAAGCCACAT TATATCACTT CTG	TTGCATT CTATCAAAGC AA	AGTCACAAG 240
CCCCTGCCAA TCA		253

Gly His Met Cys Met Cys Tyr Asp Cys Ala Ile Glu Gln Trp Arg Gly

<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 183 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:49:	
CACACACTCC CCCATTCTGA GCCCCAAGAG GCTCATCCCT AAGGATGTCC AGAGATCCAA	60
GTGCAGAAGG AGAATGTGGT GAGGCTATTT ATTCCCCCAG TGCCTTCCCT GCTGGGCTAT	120
GGATGAACAG TGGCTGACTT CATCTAGGAA AGAGCTATGG CTTCTGTCTC CTGGAGCTCA	180
CCA	183
(2) INFORMATION FOR SEQ ID NO:50:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 21 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:50:  TGCAAACTTT CACCTGGACT T	21
(2) INFORMATION FOR SEQ ID NO:51:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 24 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:51:	
CTTGTGACTT GCTTTGATAG AATG	24

(2) INFORMATION FOR SEQ ID NO:49:

(2) INFORMATION FOR SEQ ID NO:52:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 25 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:52:	
TGTCCAGAGA TCCAAGTGCA GAAGG	25
(2) INFORMATION FOR SEQ ID NO:53:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 25 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:53:	
GAGCTCCAGG AGACAGAAGC CATAG	25
(2) INFORMATION FOR SEQ ID NO:54:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 20 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:54:	
ACATTGAAGC ACTCCGCGAC	20
(2) INFORMATION FOR SEQ ID NO:55:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 20 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:55:	
AGAGTGGCAG CAACCAAGCT	20